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Approved for use through 07/31/2006. OMB 0651-0032

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UTILITY PATENT APPLICATION **TRANSMITTAL**

Attomey Docket No.	BP1236CON			
First Inventor	Steven T. Jaffe			
Title	Interspersed training for turbo coded modulation			
Evoress Mail Lahel No	EV 217697816 US			

(Only for n	new nonprovisional	l applications under, 37 CFR 1.53(b))	Express Mail Lab	el No. EV 2176	97816 US		رم	
See MPEP o		ION ELEMENTS ming utility patent application contents.	ADDRESS TO	O: Commiss P.O. Box	Patent Applic sloner for Pate 1450 ria VA 22313-1	ents	U.S.	
1. Fee Transmittal Form (e.g., PTO/SB/17) (Submit an original and a duplicate for fee processing) Applicant claims small entity status. See 37 CFR 1.27. Specification [Total Pages 37] (preferred arrangement set forth below) - Descriptive title of the invention - Cross Reference to Related Applications - Statement Regarding Fed sponsored R & D - Reference to sequence listing, a table, or a computer program listing appendix - Background of the Invention - Brief Summary of the Invention - Brief Description of the Drawings (if filed) - Detailed Description - Claim(s) - Abstract of the Disclosure			8. Nucleotide a (if applicable a. Co b. Si ii. Cc. S	7. CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix) 8. Nucleotide and/or Amino Acid Sequence Submission (if applicable, all necessary) a. Computer Readable Form (CRF) b. Specification Sequence Listing on: i. CD-ROM or CD-R (2 copies); or ii. Paper				
4. Proliming(s) (35 U.S.C. 113) [Total Sheets 15] 5. Oath or Declaration a. Newly executed (original or copy) b. Copy from a prior application (37 CFR 1.63(d)) 9. Assignment Papers (cover sheet & document(s)) 10. 2 37 CFR 3.73(b) Statement (when there is an assignee) Attorney English Translation Document (if applicable) Information Disclosure Copies of IDS Statement (IDS)/PTO-1449 Statement (IDS)/PTO-1449 Proliminary Amendment								
i	i. DELETION OF INVENTOR(S) Signed statement attached deleting inventor(s) name in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b). Return Receipt Postcard (MPEP 503) (Should be specifically itemized) Certified Copy of Priority Document(s) (if foreign priority is claimed) Nonpublication Request under 35 U.S.C. 122 (b)(2)(B)(i). Applicant must attach form PTO/SB/35					35		
18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in the first sentence of the specification following the title, or in an Application Data Sheet under 37 CFR 1.76: Continuation Divisional Continuation-in-part (CIP) of prior application No.: 10/703,286 filed 11/07/2003 Prior application information: Examiner Mai, Lam T Art Unit: 2819 For CONTINUATION OF DIVISIONAL APPS only; The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.								
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	ner Number:	34399		OR Corre	espondence —	address belov	w	
Name Garlick Harrison & Markison LLP								
P.O. Box 160727								
ATTN: Shayne X. Short, Ph.D. City Austin State Texas Zip Code 78716-0727					707			
Country USA Telephone (512) 825-1145 Fax (512) 394								
Name (Print/Ty	Name (Print/Type) Shayne X. Short, Ph.D. Registration No. (Attorney/Agent) 45,105					74 000 .		
Signature Snayne X. Snort, Ph.D.		Date 04/20/2004						

This collection of information is required by 37 CFR 1.53(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop Patent Application, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

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_FEE TRANSMITTAI	Application Number			
S for EV 2004	Filing Date			
FEE TRANSMITTAI for FY 2001 Patent fees are subject to annual revision.	First Named Inventor	Steven T. Jaffe		
Patent fees are subject to annual revision.	Examiner Name			
	Group Art Unit	-		
TOTAL AMOUNT OF PAYMENT (\$) \$1360.00	Atty Docket No.	BP1236CON	-	
METHOD OF PAYMENT	FEE	CALCULATION (continued)		
1. The Commissioner is hereby authorized to charge	3 ADDITIONAL FEES			
Deposit Account Number Deposit Account Account Name	Fee Descrip Surcharge-late filing fee Surcharge- late provisio or cover sheet Non-english specification	e or oath nal filing fee or ons		
Charge Any Additional Fee Required Under 37 CFR 1.16 and 1.17 Applicant claims small entitty status. See 37 CFR 1.27	For filing a request for e Requesting publication Examiner action Requesting publication	of SIR prior to		
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	Design Issue Fee		—	
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Independent claims in excess of 3 **Reissue independent claims	Filing a submission afte			

**or number previously paid, if greater, For Reissues, see above		Reduced by Basic Filing Fee Paid		SUBTOT	AL (3) \$0.00
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Signature	KX8ml			Date	4/20/2004

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SUBTOTAL (2)

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May 20, 2003

To whom it may concern:

I, Henry Samueli, hereby authorize Dee Henderson, Intellectual Property Portfolio Manager, to execute documents relating to US and foreign patent and trademark matters on behalf of Broadcom Corporation and/or its subsidiaries.

Henry Samueli, Ph.D.

Chief Technical Officer and Co-Chairman